

Exhibit A
Technical Exhibit

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LEHIGH VALLEY PUBLIC TELECOMMUNICATIONS CORPORATION

BETHLEHEM, PA

LICENSEE OF

WLVN-TV/DT

ALLENTOWN, PENNSYLVANIA

FCC Facility ID #36989

FCC FILE No. BLEDT-20030131AEW

ENGINEERING EXHIBIT IN SUPPORT OF A

PETITION FOR RECONSIDERATION IN MM DOCKET 87-268

October 26, 2007

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This Engineering Exhibit has been prepared for Lehigh Valley Public Telecommunications Corporation (“LEHIGH”) in support of a Petition for Reconsideration (“PETITION”) in MM Docket 87-268 regarding the post transition facilities proposed by the Commission for WLVT-DT.

BACKGROUND

LEHIGH operates public television stations WLVT-TV on Channel 39 and companion public digital public television station WLVT-DT on Channel 62. LEHIGH has elected to return to its analog channel post transition and has received a covering license (BLEDT-20030131AEW) covering the facilities proposed in a Construction Permit (BPEDT-19990902AAE) on Channel 62. The constructed facility is located on an adjoining tower to that utilized by WLVT-TV and initially proposed for WLVT-DT in MM Docket 87-268.

The Docket 87-268 allotted facilities were 50 kW at 302 meters HAAT with a somewhat directional pattern (FCC antenna rep_PAALLETOWN_62). The constructed facilities on out of core Channel 62 were 47.7 kW with a more directional antenna (Antenna ID 27819) and situated on the available tower, based on available aperture, 8 meters lower in HAAT or 294 meters. The constructed facilities met the requirement of covering at least 80% of the allotted Channel 62 facilities and thus LEHIGH is eligible to transfer the allotted facilities back to Channel 39, its present analog channel.

In the 7th R&O and 8th FNPRM in Docket 87-268 in Appendix B, the Commission proposed that WLVT-DT, on Channel 39, would be authorized an ERP of 50 kW at 302 meters on the presently licensed analog tower with a directional antenna pattern very nearly circular as shown in FCC antenna ID 74699¹.

LEHIGH plans to locate the final DTV facilities of WLVT-DT on the structure and at the height (294 meters HAAT) currently licensed for WLVT-DT on Channel 62 with an omni-directional or nearly omni-directional antenna within the limits of UHF TV transmitting antenna current technology. As such, while the resultant WLVT-DT, Channel 39 parameters as listed in Appendix B more than duplicate the existing WLVT-DT Channel 62 presently licensed coverage when taking into account the differences in the digital protected contour for each channel², the lower HAAT results in a coverage area for the 41.11 dBu contour of 16,950 square kilometers while the allotted facilities cover 17,359 square kilometers neglecting interference.

In order to duplicate the Appendix B proposed Channel 39 coverage of WLVT-DT at its presently licensed site, the ERP at the licensed site must be increased 1 dB to 63 kW from that proposed in Appendix B of the 7th R&O. As shown in Figure 2, utilizing 63 kW ERP at the presently licensed HAAT of 294 meters results in a nearly identical 41.11 dBu contour plot for both cases.

A Longley-Rice study was commissioned by this office to determine the extent of any additional caused interference, but due to the fact that the public CDBS was

¹ The tabulated directional pattern of 74699 is identical to that of the original rep_PAALLETOWN_62 pattern.

² The protected contour for Channel 62 is the F(50,90) 42.85 dBu while for Channel 39 it is the F(50,90) 41.11 dBu.

unavailable over a portion of the weekend and upon advice received by AFCCE from FCC MB staff, LEHIGH reserves the right to submit a Longley-Rice when it is received.

Respectfully submitted,

A handwritten signature in blue ink, appearing to read "Larry H. Will". The signature is fluid and cursive, with the first name "Larry" and last name "Will" clearly distinguishable.

Larry H. Will, P.E.
26 October 2007

